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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:28

Input Set : N:\Crf3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw

1 <110> APPLICANT: Patten, Phillip  
 2 Stemmer, Willem P.C.  
 3 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR POLYPEPTIDE ENGINEERING  
 4 <130> FILE REFERENCE: 02-020503US  
 5 <140> CURRENT APPLICATION NUMBER: US/10/646,221  
 6 <141> CURRENT FILING DATE: 2003-08-22  
 7 <150> PRIOR APPLICATION NUMBER: US/09/559,671  
 8 <151> PRIOR FILING DATE: 2000-04-27  
 9 <150> PRIOR APPLICATION NUMBER: 08/769,062  
 10 <151> PRIOR FILING DATE: 1996-12-18  
 11 <150> PRIOR APPLICATION NUMBER: 08/198,431  
 12 <151> PRIOR FILING DATE: 1994-02-17  
 13 <150> PRIOR APPLICATION NUMBER: 08/425,684  
 14 <151> PRIOR FILING DATE: 1995-04-18  
 15 <150> PRIOR APPLICATION NUMBER: 08/537,874  
 16 <151> PRIOR FILING DATE: 1995-10-30  
 17 <160> NUMBER OF SEQ ID NOS: 101  
 18 <170> SOFTWARE: PatentIn Ver. 2.0  
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 24 <220> FEATURE:  
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 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
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 40 <210> SEQ ID NO: 3  
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 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Artificial Sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 46 oligonucleotide used for codon usage library

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53 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
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62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
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71 <211> LENGTH: 60
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74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
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84 <220> FEATURE:
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88      ggctggtttc gctaccgttg cdcargcdgc dccdaargay ctggttccgg ttgaagagga 60
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91 <211> LENGTH: 60
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
96      oligonucleotide used for codon usage library
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100 <210> SEQ ID NO: 9
101 <211> LENGTH: 60

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104 <220> FEATURE:
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113 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
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135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
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139     acgttatcct gttcctgggt gayggyatgg gygtddcdac cgttaccgct acccgatatcc 60
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143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate
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154 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:

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156 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 157 oligonucleotide used for codon usage library  
 158 <400> SEQUENCE: 14  
 159 gggtccggac tctgctggta cygcdacygc dtayctgtgc ggtgttaaag gtaactaccg 60  
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 163 <212> TYPE: DNA  
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 165 <220> FEATURE:  
 166 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
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 168 <400> SEQUENCE: 15  
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 172 <211> LENGTH: 60  
 173 <212> TYPE: DNA  
 174 <213> ORGANISM: Artificial Sequence  
 175 <220> FEATURE:  
 176 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 177 oligonucleotide used for codon usage library  
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 179 tctgttggtg ttgttaccac yacycgygtd carcaygtdt ctccggctgg tgcttacgct 60  
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 183 <212> TYPE: DNA  
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 185 <220> FEATURE:  
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 187 oligonucleotide used for codon usage library  
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 189 gtactctgac gctgacctgc cdgcdgaygc dcaratgaac ggttgccagg acatcgctgc 60  
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 193 <212> TYPE: DNA  
 194 <213> ORGANISM: Artificial Sequence  
 195 <220> FEATURE:  
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 197 oligonucleotide used for codon usage library  
 198 <400> SEQUENCE: 18  
 199 acatcgacgt taccctgggt ggyggycgya artayatgtt cccggttggt accccggacc 60  
 201 <210> SEQ ID NO: 19  
 202 <211> LENGTH: 60  
 203 <212> TYPE: DNA  
 204 <213> ORGANISM: Artificial Sequence  
 205 <220> FEATURE:  
 206 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
 207 oligonucleotide used for codon usage library  
 208 <400> SEQUENCE: 19  
 209 tctgttaacg gtgttcgtaa rcgyaarc ar aayctggtgc aggcttgga ggctaaacac 60

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Input Set : N:\Crf3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw

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 215 <220> FEATURE:  
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 219 gaaccgtacc gctctgctgc argcdgdcga ygaytcytct gttaccacc tgatgggtct 60  
 221 <210> SEQ ID NO: 21  
 222 <211> LENGTH: 60  
 223 <212> TYPE: DNA  
 224 <213> ORGANISM: Artificial Sequence  
 225 <220> FEATURE:  
 226 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
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 233 <212> TYPE: DNA  
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 235 <220> FEATURE:  
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 237 oligonucleotide used for codon usage library  
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 247 oligonucleotide used for codon usage library  
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 249 gaccgaagct ggtatgttcg ayaaygdat ygcdargct aacgaactga cctctgaact 60  
 251 <210> SEQ ID NO: 24  
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 253 <212> TYPE: DNA  
 254 <213> ORGANISM: Artificial Sequence  
 255 <220> FEATURE:  
 256 <223> OTHER INFORMATION: Description of Artificial Sequence: degenerate  
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/646,221

DATE: 07/30/2004

TIME: 14:04:29

Input Set : N:\Crf3\RULE60\10646221.raw

Output Set: N:\CRF4\07302004\J646221.raw